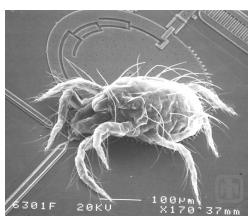


# The Scale of Things -- Nanometers and More

## Things Natural



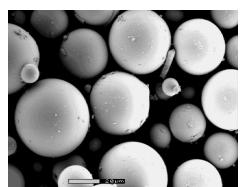
Dust mite  
200  $\mu\text{m}$



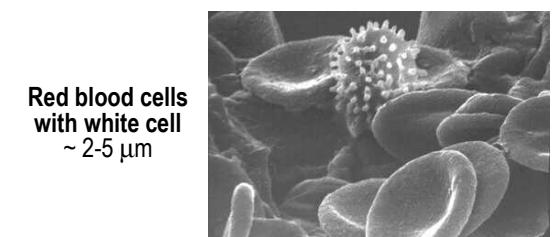
Ant  
~ 5 mm



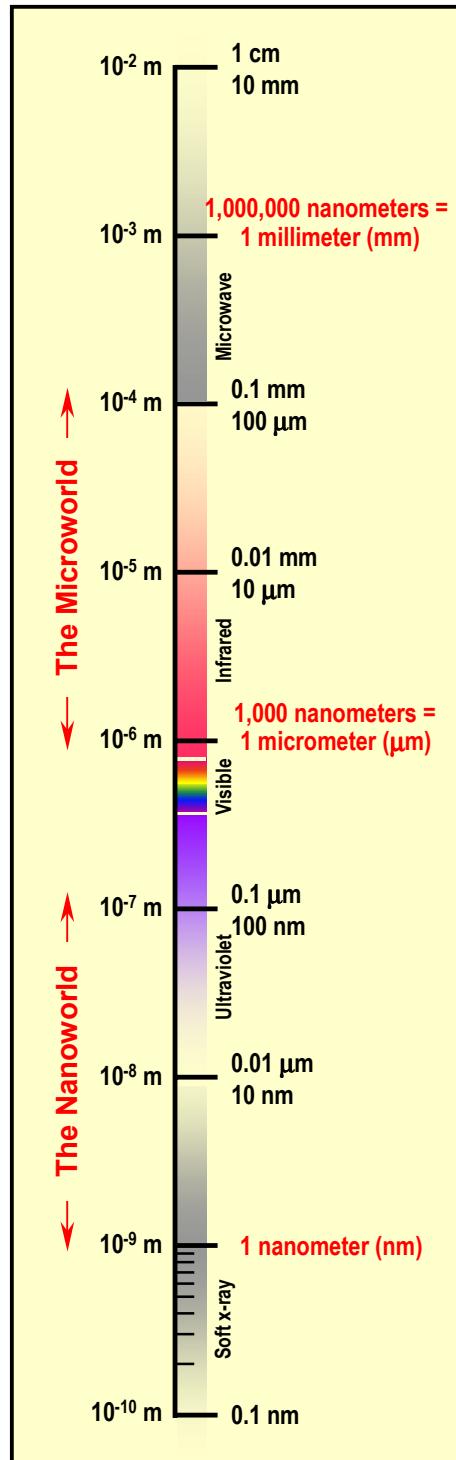
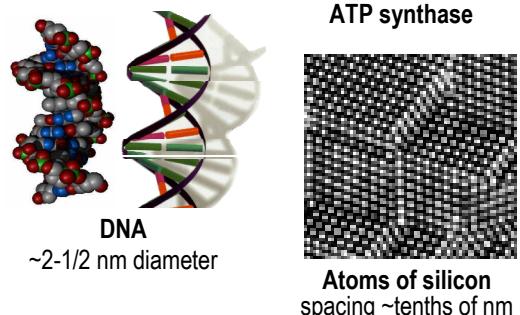
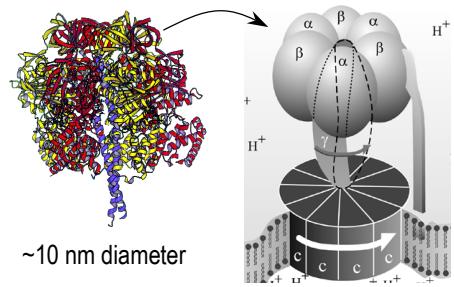
Human hair  
~ 10-50  $\mu\text{m}$  wide



Fly ash  
~ 10-20  $\mu\text{m}$



Red blood cells  
with white cell  
~ 2-5  $\mu\text{m}$

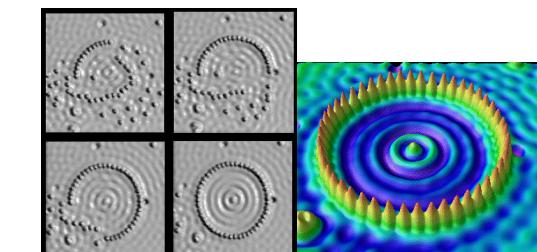
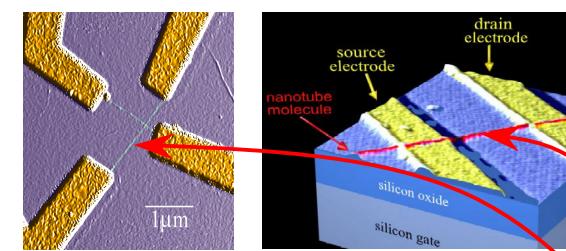
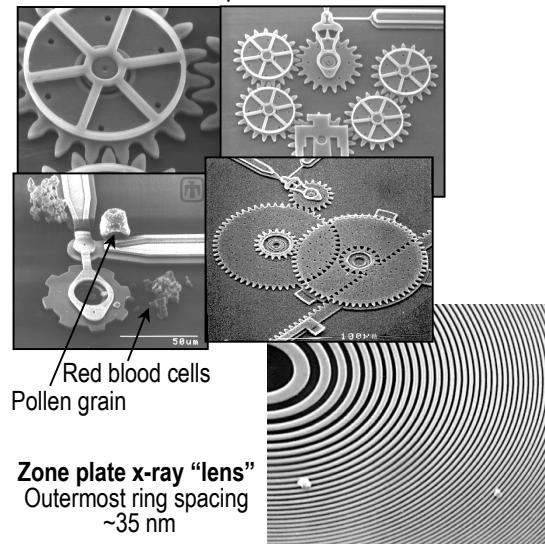


## Things Manmade



Head of a pin  
1-2 mm

MicroElectroMechanical devices  
10 -100  $\mu\text{m}$  wide



## 21<sup>st</sup> Century Challenge

